

## CLAIMS

What is claimed is:

- 5     1. A range hood for drawing air from below the range hood and venting it to another location comprising:

10     a motor housing generally defining an enclosure and comprising an upper surface and a lower surface, said lower surface having at least one opening and at least one drain hole;

   a motor having a rotatable shaft with a torsional member, said motor mounted within said enclosure;

- 15     a fan having a top fan surface and a bottom fan surface and a plurality of fan blades connected therebetween, said bottom fan surface having top and bottom edges, said fan being releasably connectable to said motor;

20     a tray comprising an air intake opening, first and second tray walls extending around said intake opening, and a floor between said first and second tray walls, said tray being releasably connectable to said motor housing opening; and

25     wherein said motor housing opening is defined by a wall depending from said lower surface and projecting into the interior of said enclosure, said wall having an angular flange depending from said wall radially outwardly from said motor housing opening.

- 30     2. The range hood of claim 1 wherein a portion of said angular flange is located above the level of said top edge of said bottom fan surface such that when said fan draws air into said motor housing, a portion of air travelling immediately adjacent said bottom fan surface is deflected by said flange.

3. The range hood of claim 2 wherein said shaft has a threaded recess, said fan has an aperture through which said shaft may be inserted and wherein a fan cap having a threaded bolt is threadingly engaged with said threaded recess of said shaft.

5 4. The range hood of claim 3 further comprising a flat fan grill connected to said first tray wall and wherein when said fan is connected to said motor by said fan cap, said fan cap is above the level of a portion of said bottom fan surface.

10 5. The range hood of claim 2 wherein said motor housing is sized such that only a portion of said fan is located within said motor housing.

6. The range hood of claim 5 wherein said floor of said tray having a notch and a lowermost surface.

15 7. The range hood of claim 6 further comprising a range hood body having a releasably connectable lower panel, said lower panel having a bottom surface and an opening corresponding to said tray, wherein when said lower surface is connected to said range hood body, said lower panel and said tray are in abutment and said lowermost surface and said bottom surface of said lower panel lie substantially in a plane.

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8. A range hood for drawing air from below the range hood and venting it to another location comprising:

25 a motor housing generally defining an enclosure and comprising an upper surface and a lower surface, said lower surface having at least one opening and at least one drain hole;

a motor having a rotatable shaft with a torsional member, said motor mounted within said enclosure;

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a fan having a top fan surface and a bottom fan surface and a plurality of fan blades connected therebetween, said bottom fan surface having top and bottom edges, said fan being releasably connectable to said motor;

5 wherein said shaft has a threaded recess, said fan has an aperture through which said shaft may be inserted and wherein a fan cap having a threaded bolt may be threadingly engaged with said threaded recess of said shaft.

9. The range hood of claim 8 wherein when said fan is connected to said motor by said  
10 fan cap, said fan cap is above the level of said bottom edge of said bottom fan surface.

10. The range hood of claim 9 further comprising a flat fan grill.

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